

## ABSTRACT OF THE DISCLOSURE

The present invention discloses methods by which client computers working in a host operating environment can use from external data sources, which methods do not require nonvolatile storage of the data as native data to the host operating environment. The methods  
5 operate transparently to a user of a client computer using the data through the host operating environment, and allow the data to be used as a first class participant in the host operating environment. Changes to the data can be saved nonvolitlely in the external data sources.

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